ENDOCRINOLOGY INDEX

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EXPLANATION OF FORMAT

The period covered by this issue of the bibliography corresponds to the same months of *Index Medicus*. The journal coverage is limited to journals covered by *Index Medicus*, but the *Endocrinology Index* contains additional subject headings that are not included in *Index Medicus*. The *Endocrinology Index* is arranged in seven sections: 1) Table of Contents; 2) Subject Section; 3) Review Section; 4) Method Section; 5) Author Section; 6) Subject Index; and 7) Author Index.

Subject Section

The Subject Section is for the reader interested in recent literature related to certain broad topics and is divided into eight categories (pituitary, thyroid, etc.). The endocrine pancreas has not been included since it is the subject of another recurring bibliography, *Diabetes Literature Index*. Each category has a preconceived hierarchical organization of subject headings. A particular citation may appear more than once if it deals with multiple topics. Each citation to an article contains the full title, first author, and journal reference. If the article is written in a foreign language, the language is indicated. If the citation is to a review article, the number of references is given.

Author Section

The Author Section provides the reader with a list of keywords or index terms assigned to each citation. Each article appears only once. The citations are arranged alphabetically according to first author and are numbered consecutively. These numbers are then used in the Author and Subject Indexes to enable the reader to identify references with ease. The complete citations (including index terms) are found but only the first three authors are listed. Foreign titles appear in the original language; these titles have been translated into English in the Subject Section. Following each citation are index terms which have been assigned to describe the contents of the article. Index terms appear in capital letters; some of these are accompanied by subheadings which appear in lower case letters. Asterisks (*) identify the index terms under which articles appear in *Index Medicus*.

Subject Index

All of the index terms assigned to the citations appearing in the bibliography are listed, followed by citation numbers which correspond to the numbers in the Author Section. The Subject Index is included for the convenience of the reader who wishes to select articles falling in categories of his own conception. For example, one who is interested in protein binding of a particular hormone could quickly find whether there were any articles dealing with this subject by determining if there were any citation numbers common to the two headings "protein binding" and the name of the specific hormone.

Author Index

The names of all authors are listed, followed by citation numbers which correspond to the numbers in the Author Section.

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ENDOCRINOLOGY INDEX

National Institute of Arthritis, Metabolism, and Digestive Diseases

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PREFACE

The *Endocrinology Index* is a bimonthly publication of the National Institute of Arthritis, Metabolism, and Digestive Diseases. This selected bibliography which is produced from the National Library of Medicine's Medical Literature Analysis and Retrieval System (MEDLARS), has been initiated to supply those scientists working in the field of endocrinology with a much needed current awareness tool and is intended to help facilitate greater integration of research and clinical efforts in this field.

Endocrinology Index was developed with the support of contract PH43-66-480 in 1966-70 to Vanderbilt University under the direction of Grant W. Liddle. The National Institute of Arthritis, Metabolism, and Digestive Diseases is most appreciative of the fine work in originally developing and editing the *Index* provided by Grant W. Liddle and Victoria Ragin Liddle and for their continuing editorial advice in making the *Endocrinology Index* a most important and necessary component of endocrinology literature within the biomedical research community.

The Secretary of the Department of Health, Education, and Welfare has determined that the publication of this periodical is necessary in the transaction of the public business required by law of this Department. Use of funds for printing this periodical has been approved by the Director of the Office of Management and Budget through April 30, 1978

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ADENOMA, BASOPHILIC

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ETIOLOGY

Endocrine and morphologic studies of pituitary adenomas secondary to primary hypothyroidism. Samaan NA, et al. **J Clin Endocrinol Metab** 45(5):903–11, Nov 77

METABOLISM

Lysosomal disposal of secretory granules and their transformation into pigment particles in spontaneous prolactin cell adenomas of the rat pituitary. Ilse G, et al. **Z Mikrosk Anat Forsch** 90(5):876–82, 1976

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ADENOMA, EOSINOPHILIC

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THYROID

IV. Thyroid Antagonists and Inhibitors

CARBIMAZOLE

ADVERSE EFFECTS

[A case of agranulocytosis with favorable outcome caused by carbimazole (Neomercazole R)] Fourrier F, et al. **Lille Med** 22(8):519–23, Oct 77 **(Fre)**

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Extrathyroidal effects of propylthiouracil and carbimazole on serum T4, T3, reverse T3 and TRH-induced TSH-release in man. Siersbaek-Nielsen K, et al. **Acta Endocrinol (Kbh)** 87(1):80–7, Jan 78

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[Evaluation of the results of treatment of Graves' disease by synthetic antithyroid drugs] Fischer D, et al. **Sem Hop Paris** 53(34–35):1843–9, 9–16 Oct 77 (Eng. Abstr.) **(Fre)**

METHIMAZOLE

Studies of the tumorigenic effect of two goitrogens. Jemec B. **Cancer** 40(5):2188–202, Nov 77

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[Effect of degree of experimentally induced hypothyroidism on changes in serum albumin spectra in rats] Ratzmann L, et al. **Endokrinologie** 70(1):53–68, Sep 77 (Eng. Abstr.) **(Ger)**

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METABOLISM

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ADVERSE EFFECTS

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THYROID

V. *Related Topics*

EXOPHTHALMOS

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Unilateral proptosis due to fibrous dysplasia. Natchiar G. **Indian J Ophthalmol** 24(2):37–9, Jul 76

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A rationale for the surgical treatment of exophthalmos and exorbitism. Wolfe SA. **J Maxillofac Surg** 5(4):249–57, Nov 77

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EXOPHTHALMOS PRODUCING SUBSTANCE

IMMUNOLOGY

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IODIDES

ADMINISTRATION & DOSAGE

Clinical study on early changes in thyroid function of hyperthyroidism treated with propylthiouracil and a relatively small dose of iodide. Kasai K, et al. **Endocrinol Jpn** 23(4):347–54, Aug 77

ADVERSE EFFECTS

[Iodine overload and hyperthyroidism. Apropos of 17 cases] Hazard J, et al. **Ann Med Interne (Paris)** 128(11):883–5, Nov 77 **(Fre)**

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IODOPROTEINS

ANALYSIS

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LONG-ACTING THYROID STIMULATOR

ANALYSIS

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Effects of total fasting in obese women. I. Response of the thyroid. Límanová Z, et al. **Endokrinologie** 70(1):38–44, Sep 77

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BLOOD

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BETAMETHASONE 17-VALERATE

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CORTISONE

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A radioimmunoassay for 7 alpha-hydroxy dehydroepiandrosterone in human plasma. Skinner SJ, et al. **Steroids** 30(3):315–30, Sep 77

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HYDROCORTISONE, TOPICAL

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17-HYDROXYCORTICOSTEROIDS

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HYDROXYPREGNENOLONE

ANALOGS & DERIVATIVES

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KETOSTEROIDS

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17-KETOSTEROIDS

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METHYLPREDNISOLONE

METABOLISM

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[Metabolic fate of synthetic glucocorticoids in the rat] Mineo T. **Nippon Naibunpi Gakkai Zasshi** 52(12):1243–68, 20 Dec 76 (Eng. Abstr.) **(Jpn)**

THERAPEUTIC USE

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MINERALOCORTICOIDS

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PARAMETHASONE

METABOLISM

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PHARMACODYNAMICS

[Metabolic fate of synthetic glucocorticoids in the rat] Mineo T. **Nippon Naibunpi Gakkai Zasshi** 52(12):1243–68, 20 Dec 76 (Eng. Abstr.) **(Jpn)**

PREDNISOLONE

ADMINISTRATION & DOSAGE

Corticosteroids in the treatment of severe acute asthma (status asthmaticus). Collins JV, et al. **Acta Tuberc Pneumol Belg** 68(1):63–73, Jan–Mar 77

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ANTAGONISTS & INHIBITORS

Effectiveness of prednisolone during phenytoin therapy. Petereit LB, et al. **Clin Pharmacol Ther** 22(6):912–6, Dec 77

BLOOD

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THERAPEUTIC USE

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THERAPEUTIC USE

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PREGNANETRIOL

URINE

Congenital adrenal hyperplasia: simultaneous determination of plasma aldosterone and 17-hydroxyprogesterone. Parth K, et al. **Acta Endocrinol (Kbh)** 87(1):148–57, Jan 78

Urinary steroid profiles in normal women and in patients with breast cancer in Britain and Japan: relation to thyroid function. Thomas BS, et al. **Eur J Cancer** 13(11):1287–92, Nov 77

TETRAHYDROCORTISONE

PHARMACODYNAMICS

The use of tetrahydrocortisone-3-beta-D-glucuronide in the

measurement of urinary 17-hydroxycorticosteroids. Hadd HE. **J Clin Endocrinol Metab** 45(5):1128–30, Nov 77

TRIAMCINOLONE

ADMINISTRATION & DOSAGE

[Healing of surgical wounds of the skin of rats after topical application of hydrocortisone, prednisolone and triamcinolone in identical concentrations and associated with an antibiotic] Rezende E, et al. **Ars Curandi Odontol** 2(6):17–24, Feb–Mar 76 **(Por)**

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TRIAMCINOLONE ACETONIDE

ANALOGS & DERIVATIVES

Synthesis and biological action of two glucocorticoid alkylating agents. El Masry AH, et al. **J Med Chem** 20(9):1134–9, Sep 77

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Synthesis and biological action of two glucocorticoid alkylating agents. El Masry AH, et al. **J Med Chem** 20(9):1134–9, Sep 77

IV. Related Topics

AMINOGLUTETHIMIDE

PHARMACODYNAMICS

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METYRAPONE

ADMINISTRATION & DOSAGE

Radioimmunoassay of human beta-lipotropin in unextracted plasma. Wiedemann E, et al. **J Clin Endocrinol Metab** 45(5):1108–11, Nov 77

[Metyrapone loading test (a single administration), with special reference to the use of a suppository in pediatrics] Kato T, et al. **Horumon To Rinsho** 25(9):974–81, Sep 77 **(Jpn)**

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New method of beclomethasone aerosol administration to children under 4 years of age. Freigang B. **Can Med Assoc J** 117(11):1308–9, 3 Dec 77

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DRUG EFFECTS

Effects of clomiphene citrate administraiton on the hypothalamo-pituitary-gonadal axis of male chronic schizophrenics. Brambilla F, et al. **Acta Psychiatr Scand** 56(5):399–406, Nov 77

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V. *Adrenal Medulla*

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III. *Gonadal Hormones, Precursors, Metabolites and Synthetic Analogs*

ALGESTONE ACETOPHENIDE

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ETHYNODIOL DIACETATE

ADMINISTRATION & DOSAGE

Oral contraception—choice of treatment. Law B. **Practitioner** 219(1312):571-8, Oct 77

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ADMINISTRATION & DOSAGE

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[Incidence of side effects of synthetic progestins with different content of estrogenic and gestagenic components] Rotkina IE, et al. **Akush Ginekol (Mosk)** (9):29–31, 9 Sep 77 (Eng. Abstr.) **(Rus)**

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PLACENTA

III. Placental Hormones, Precursors, Metabolites and Synthetic Analogs

GONADOTROPINS, CHORIONIC

Relationships of structure with function of the gonadotrophins. Butt WR. **J Clin Pathol [Suppl]** (7):12–5, Nov 76

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GONADOTROPINS, EQUINE

PHARMACODYNAMICS

Stimulation of prolactin secretion by estrogens and androgens in PMS-HCG treated immature rats. Rennels EG, et al. **Biol Reprod** 17(4):484–8, Nov 77

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PHARMACODYNAMICS

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PARATHYROID AND BONE

I. Physical and Functional Aspects

PARATHYROID GLANDS

Human parathyroid cryopreservation: in vitro testing of function by parathyroid hormone release. Brennan MF, et al. **Ann Surg** 187(1):87–90, Jan 78

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CYTOLOGY

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Multicellular origin of parathyroid 'adenomas' [letter] Gown AM. **N Engl J Med** 298(1):53–4, 5 Jan 78

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II. Disorders of the Parathyroid Glands

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PARATHYROID AND BONE

III. Parathyroid Hormone

PARATHYROID HORMONE

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NEUROSECRETORY SYSTEMS

ANALYSIS

Some histochemical reactions on the neurosecretory cells of Rivulogammarus syriacus chevreux (Crustacea, Amphipoda). Dabbagh SA, et al.
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NEUROENDOCRINOLOGY

II. Disorders of the Amygdaloid Body

HYPOTHALAMUS

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HYPOTHALAMUS, ANTERIOR

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BLOOD

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NEUROENDOCRINOLOGY

III. Neuroendocrine System Hormones, Precursors, Metabolites and Synthetic Analogs

CORTICOTROPIN RELEASING HORMONE

ANALYSIS

Hypothalamic control of ACTH secretion in goldfish. I. Corticotrophin-releasing factor activity in teleost brain tissue extracts. Fryer JN, et al. **Gen Comp Endocrinol** 33(2):196–201, Oct 77

BIOSYNTHESIS

Production of corticotrophin releasing hormone by the isolated hypothalamus of the rat. Buckingham JC, et al. **J Physiol (Lond)** 272(2):469–79, Nov 77

BLOOD

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ADMINISTRATION & DOSAGE

Dose-response study with a new LH-RH analogue, D-Ser (TBU)6 LH-RH 1-9 (EA)10 during the follicular phase of the menstrual cycle. Friedrich E, et al. **Acta Endocrinol (Kbh)** 87(1):19–27, Jan 78

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ISOLATION & PURIFICATION

[Hypothalamic hormones (author's transl)] Yanaihara N. **Tanpakushitsu Kakusan Koso** 22(6):670–9, 1977 (100 ref.) **(Jpn)**

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[Biochemistry of steroid hormone receptors] Gustafsson JA. **Lakartidningen** 74(52):4667–9, 28 Dec 77 (Eng. Abstr.) **(Swe)**

[Glucocorticoid receptors in tumor cells] Simonsson B, et al. **Lakartidningen** 74(52):4678–80, 28 Dec 77 (Eng. Abstr.) **(Swe)**

PHYSIOLOGY

Regulation of gene expression in eucaryotes. O'Malley BW, et al. **Annu Rev Genet** 11:239–75, 1977 (223 ref.)

Analysis of receptor mechanisms involved in the hemopoietic effects of androgens: use of the Tfm mutant. Byron JW. **Exp Hematol** 5(6):429–35, Nov 77

REVIEW SECTION

ADRENAL CORTEX

METABOLISM

Catecholamine release from the adrenal medulla. Perlman RL, et al. **Clin Endocrinol Metab** 6(3):551–76, Nov 77 (194 ref.)

PHYSIOLOGY

[Relationship between the adrenal cortex–ACTH system and carbohydrate metabolism] László F. **Orv Hetil** 118(50):3015–8, 11 Dec 77 (33 ref.) **(Hun)**

ADRENAL CORTEX HORMONES

METABOLISM

Carboxylic acid metabolites of steroids. Monder C, et al. **J Steroid Biochem** 8(8):897–908, Aug 77 (116 ref.)

ADRENAL MEDULLA

PHYSIOLOGY

Catecholamine release from the adrenal medulla. Perlman RL, et al. **Clin Endocrinol Metab** 6(3):551–76, Nov 77 (194 ref.)

ANABOLIC STEROIDS

THERAPEUTIC USE

[Treatment of growth retardation with androgens in Turner's syndrome] Sorensen K, et al. **Ugeskr Laeger** 139(43):2559–61, 24 Oct 77 (25 ref.) (Eng. Abstr.) **(Dan)**

ANDROGENS

PHARMACODYNAMICS

Regulation of kidney growth by androgens. Kochakian CD. **Adv Steroid Biochem Pharmacol** 6:1–34, 1977 (185 ref.)

BONE AND BONES

ENZYMOLOGY

[Alkaline phosphatase and its biological significance in calcified tissues (author's transl)] Oida S, et al. **Kokubyo Gakkai Zasshi** 44(3):141–9, Sep 77 (42 ref.) **(Jpn)**

CALCIUM

METABOLISM

[A ubiquitous Ca-binding protein that activates cyclic nucleotide phosphodiesterase (author's transl)] Kasai H. **Tanpakushitsu Kakusan Koso** 22(6):680–5, 1977 (36 ref.) **(Jpn)**

[Disorders of calcium–phosphate metabolism in primary renotubular dysfunction] Raszeja-Wanic R. **Pol Arch Med Wewn** 58(3):283–7, Sep 77 (22 ref.) **(Pol)**

PHARMACODYNAMICS

Electrical and adaptive properties of rod photoreceptors in Bufo marinus. I. Effects of altered extracellular Ca2+ levels. Lipton SA, et al. **J Gen Physiol** 70(6):747–70, Dec 77 (52 ref.)

CHOLECALCIFEROLS

BIOSYNTHESIS

Sunlight, ozone and vitamin D. Beadle PC. **Br J Dermatol** 97(5):585–91, Nov 77 (26 ref.)

CLOMIPHENE

ADVERSE EFFECTS

[Syndrome of hyperstimulation of the ovaries] Smetnik VP, et al. **Akush Ginekol (Mosk)** (9):7–10, 9 Sep 77 (36 ref.) **(Rus)**

CONTRACEPTIVES, ORAL

ADVERSE EFFECTS

Contraceptive steroids and liver lesions. Garcia CR, et al. **J Toxicol Environ Health** 3(1–2):197–206, Sep 77 (53 ref.)

Oral contraceptives and endometrial and cervical cancer. Moghissi KS. **J Toxicol Environ Health** 3(1–2):243–65, Sep 77 (9 ref.)

METABOLISM

Comparative metabolism of 17alpha-ethynyl steroids used in oral contraceptives. Ranney RE. **J Toxicol Environ Health** 3(1–2):139–66, Sep 77 (58 ref.)

CONTRACEPTIVES, ORAL, HORMONAL

ADVERSE EFFECTS

Contraceptive steroids and liver lesions. Garcia CR, et al. **J Toxicol Environ Health** 3(1–2):197–206, Sep 77 (53 ref.)

Oral contraceptives and endometrial and cervical cancer. Moghissi KS. **J Toxicol Environ Health** 3(1–2):243–65, Sep 77 (9 ref.)

METABOLISM

Comparative metabolism of 17alpha-ethynyl steroids used in oral contraceptives. Ranney RE. **J Toxicol Environ Health** 3(1–2):139–66, Sep 77 (58 ref.)

REVIEW SECTION

CORTICOTROPIN

METABOLISM

[Mechanism of regulating corticotropin levels in the body (review of the literature)] Korkach VI. **Vrach Delo** (11):61–7, Nov 77 (45 ref.) **(Rus)**

PHYSIOLOGY

[Relationship between the adrenal cortex–ACTH system and carbohydrate metabolism] László F. **Orv Hetil** 118(50):3015–8, 11 Dec 77 (33 ref.) **(Hun)**

CRYPTORCHISM

FAMILIAL & GENETIC

Sex-limited and sex-modified genetic defects in swine—cryptorchidism. Sittmann K, et al. **Can J Genet Cytol** 19(3):487–502, Sep 77 (32 ref.)

VETERINARY

Cryptorchidism and intersexuality. Rhoades JD, et al. **Vet Clin North Am** 7(4):789–94, Nov 77 (26 ref.)

DIABETES INSIPIDUS

DRUG THERAPY

A hypothesis for the molecular mechanism of action of chlorpropamide in the treatment of diabetes mellitus and diabetes insipidus. Zusman RM, et al. **Fed Proc** 36(13):2728–9, Dec 77 (23 ref.)

ENDOCRINE DISEASES

PHYSIOPATHOLOGY

Electrocardiogram in endocrine and metabolic disorders. Surawicz B, et al. **Cardiovasc Clin** 8(3):243–66, 1977 (120 ref.)

ESTROGENS

2-Hydroxyoestrogens. Chemistry, biogenesis, metabolism and physiological significance. Gelbke HP, et al. **Adv Steroid Biochem Pharmacol** 6:81–154, 1977 (282 ref.)

METABOLISM

Prolactin and estrogen receptors in breast cancer. McGuire WL, et al. **Pathobiol Annu** 7:191–211, 1977 (210 ref.)

PHARMACODYNAMICS

FDA studies of estrogen, progestogens, and estrogen/progestogen combinations in the dog and monkey. Geil RG, et al. **J Toxicol Environ Health** 3(1–2):179–93, Sep 77 (2 ref.)

FANCONI SYNDROME

METABOLISM

[Disorders of calcium–phosphate metabolism in primary renotubular dysfunction] Raszeja-Wanic R. **Pol Arch Med Wewn** 58(3):283–7, Sep 77 (22 ref.) **(Pol)**

FSH

ANALYSIS

[Protein chemistry of gonadotropin (author's transl)] Tsunasawa S. **Tanpakushitsu Kakusan Koso** 22(10):1153–67, 1977 (195 ref.) **(Jpn)**

SECRETION

Steroid feedback regulation of luteinizing hormone and follicle-stimulating hormone secretion rates in male and female rats. Campbell CS, et al. **J Toxicol Environ Health** 3(1–2):61–95, Sep 77 (62 ref.)

GOITER, EXOPHTHALMIC

ETIOLOGY

The pathogenesis of endocrine exophthalmos: a short review. Doniach D. **Proc R Soc Med** 70(10):695–8, Oct 77 (14 ref.)

GONADOTROPINS, CHORIONIC

ADVERSE EFFECTS

[Syndrome of hyperstimulation of the ovaries] Smetnik VP, et al. **Akush Ginekol (Mosk)** (9):7–10, 9 Sep 77 (36 ref.) **(Rus)**

HERMAPHRODITISM

VETERINARY

Cryptorchidism and intersexuality. Rhoades JD, et al. **Vet Clin North Am** 7(4):789–94, Nov 77 (26 ref.)

HORMONES

Protein hormones and the eucaryotic genome: a general theory of hormone action. Raacke ID. **Perspect Biol Med** 21(1):139–57, Autumn 77 (157 ref.)

METABOLISM

Hormonal regulation during prolonged exercise. Galbo H, et al. **Ann NY Acad Sci** 301:72–80, 1977 (47 ref.)

Phosphorylated proteins as physiological effectors. Greengard P. **Science** 199(4325):146–52, 13 Jan 78 (73 ref.)

PHARMACODYNAMICS

Radiation induced osteogenic sarcoma in the rat as a model of hormone-responsive differentiated cancer. Ingleton PM, et al. **Lab Anim Sci** 27(5 Pt 2):748–56, Oct 77 (27 ref.)

PHYSIOLOGY

[Hormones and brain function (author's transl)] Kosaka M. **Tanpakushitsu Kakusan Koso** 22(6):827–32, 1977 (41 ref.) **(Jpn)**

SECRETION

Catecholamines and the regulation of hormone secretion. Young JB, et al. **Clin Endocrinol Metab** 6(3):657–95, Nov 77 (241 ref.)

First annual Arnar-Stone lecture: The importance of the endocrine and metabolic responses to shock and trauma. Egdahl RH, et al. **Crit Care Med** 5(6):257–63, Nov–Dec 77 (98 ref.)

HYPERPARATHYROIDISM

DIAGNOSIS

[Diagnostic value of parathormone determinations] Hesch RD, et al. **Internist (Berlin)** 18(10):544–55, Oct 77 (52 ref.) **(Ger)**

REVIEW SECTION

HYPERTHYROIDISM

PHYSIOPATHOLOGY

Catecholamines and hyperthyroidism. Landsberg L. **Clin Endocrinol Metab** 6(3):697–718, Nov 77 (117 ref.)

HYPOTHALAMUS

PHYSIOLOGY

The role of serotonin and dopamine in hypothalamic–pituitary function. Smythe GA. **Clin Endocrinol (Oxf)** 7(4):325–41, Oct 77 (123 ref.)

The endocrine function of the hypothalamus. Buckingham JC. **J Pharm Pharmacol** 29(11):649–56, Nov 77 (38 ref.)

HYPOTHYROIDISM

DRUG THERAPY

Management of hypothyroidism. Cobb WE, et al. **J Maine Med Assoc** 68(12):466–8, 470–4, Dec 77 (79 ref.)

LACTATION

Nutritional recommendations for gestation and lactation in the dog. Mosier JE. **Vet Clin North Am** 7(4):683–92, Nov 77 (23 ref.)

LH

ANALYSIS

[Protein chemistry of gonadotropin (author's transl)] Tsunasawa S. **Tanpakushitsu Kakusan Koso** 22(10):1153–67, 1977 (195 ref.) **(Jpn)**

SECRETION

Steroid feedback regulation of luteinizing hormone and follicle-stimulating hormone secretion rates in male and female rats. Campbell CS, et al. **J Toxicol Environ Health** 3(1–2):61–95, Sep 77 (62 ref.)

LIPOTROPIN

PHYSIOLOGY

Lipotropin and the central nervous system. Gispen WH, et al. **Int Rev Neurobiol** 20:209–50, 1977 (282 ref.)

MELATONIN

BIOSYNTHESIS

[Biorhythms and the central nervous system (author's transl)] Hirata F. **Tanpakushitsu Kakusan Koso** 22(6):798–804, 1977 (66 ref.) **(Jpn)**

NERVE GROWTH FACTOR

Nerve growth factor. Server AC, et al. **Adv Protein Chem** 31:339–409, 1977 (125 ref.)

ISOLATION & PURIFICATION

[Recent studies on nerve growth factors (author's transl)] Hayashi K, et al. **Seikagaku** 49(6):389–410, 1977 (138 ref.) **(Jpn)**

[Nerve growth factor (author's transl)] Hayashi K, et al. **Tanpakushitsu Kakusan Koso** 22(6):700–14, 1977 (116 ref.) **(Jpn)**

OVARIAN CYSTS

CHEMICALLY INDUCED

[Syndrome of hyperstimulation of the ovaries] Smetnik VP, et al. **Akush Ginekol (Mosk)** (9):7–10, 9 Sep 77 (36 ref.) **(Rus)**

OVARY

DRUG EFFECTS

[Syndrome of hyperstimulation of the ovaries] Smetnik VP, et al. **Akush Ginekol (Mosk)** (9):7–10, 9 Sep 77 (36 ref.) **(Rus)**

EMBRYOLOGY

Recent advances in the morphology, histochemistry, and biochemistry of the developing mammalian ovary. Guraya SS. **Int Rev Cytol** 51:49–131, 1977 (217 ref.)

GROWTH & DEVELOPMENT

Recent advances in the morphology, histochemistry, and biochemistry of the developing mammalian ovary. Guraya SS. **Int Rev Cytol** 51:49–131, 1977 (217 ref.)

PARATHYROID HORMONE

BLOOD

[Diagnostic value of parathormone determinations] Hesch RD, et al. **Internist (Berlin)** 18(10):544–55, Oct 77 (52 ref.) **(Ger)**

PHYSIOLOGY

[Role of parathormone in the physiopathology of renal metabolic activity] **Pediatria (Napoli)** 85(3):504–13, 30 Sep 77 (200 ref.) **(Ita)**

PHEOCHROMOCYTOMA

PHYSIOPATHOLOGY

Phaeochromocytoma. Engelman K. **Clin Endocrinol Metab** 6(3):769–97, Nov 77 (45 ref.)

PITUITARY GLAND

PHYSIOLOGY

The endocrine function of the hypothalamus. Buckingham JC. **J Pharm Pharmacol** 29(11):649–56, Nov 77 (38 ref.)

[Characteristics of pituitary–thyroid functions in the perinatal period] Nakai T, et al. **Horumon To Rinsho** 25(11):1105–14, Nov 77 (48 ref.) **(Jpn)**

SECRETION

The role of serotonin and dopamine in hypothalamic–pituitary function. Smythe GA. **Clin Endocrinol (Oxf)** 7(4):325–41, Oct 77 (123 ref.)

PITUITARY GLAND, ANTERIOR

DRUG EFFECTS

Neuroleptic-stimulated prolactin secretion in the rat as an animal model for biological psychiatry: I. Comparison with anti-psychotic activity. pp. 443–55. Meltzer HY, et al. **In: Hanin I, Usdin E, ed. Animal models in psychiatry and neurology. Oxford, Pergamon Press, 1977. WM 100 W897a 1977.** (101 ref.)

REVIEW SECTION

SECRETION

[Sleep and secretory activity of the anterior pituitary] Muratorio A, et al. **Riv Neurol** 47(5):546–69, Sep–Oct 77 (124 ref.) **(Ita)**

PITUITARY HORMONE RELEASING HORMONES

Classification of anovulatory patients using GnRH. Insler V, et al. **J Obstet Gynaecol India** 27(3):411–8, Jun 77 (46 ref.)

PHYSIOLOGY

[Hypothalamic hormones (author's transl)] Yanaihara N. **Tanpakushitsu Kakusan Koso** 22(6):670–9, 1977 (100 ref.) **(Jpn)**

PITUITARY NEOPLASMS

COMPLICATIONS

Prolactin secreting pituitary adenomas in women with amenorrhea or galactorrhea. Keye WR Jr, et al. **Obstet Gynecol Surv** 32(11):727–38, Nov 77 (108 ref.)

PLACENTA

IMMUNOLOGY

[Immunology of pregnancy. I.—Mother's immunization against her fetus (author's transl)] Soubiran P, et al. **Pathol Biol (Paris)** 25(8):573–82, Oct 77 (67 ref.) (Eng. Abstr.) **(Fre)**

METABOLISM

Nucleic acid metabolism of placenta and fetus. Hayashi TT. **Obstet Gynecol Annu** 6:11–22, 1977 (72 ref.)

PATHOLOGY

The placenta in preeclampsia. Wynn RM. **Obstet Gynecol Annu** 6:191, 1977 (23 ref.)

PLACENTA DISORDERS

COMPLICATIONS

Placentitis, with a new light on an old ToRCH. Altshuler G. **Obstet Gynecol Annu** 6:197–221, 1977 (130 ref.)

DIAGNOSIS

[Serum oxytocinase: an index of placental function] Tiriduzzi M. **Minerva Ginecol** 29(7–8):557–62, Jul–Aug 77 (60 ref.) (Eng. Abstr.) **(Ita)**

PLACENTAL FUNCTION TESTS

[Serum oxytocinase: an index of placental function] Tiriduzzi M. **Minerva Ginecol** 29(7–8):557–62, Jul–Aug 77 (60 ref.) (Eng. Abstr.) **(Ita)**

PROGESTATIONAL HORMONES

PHARMACODYNAMICS

FDA studies of estrogen, progestogens, and estrogen/progestogen combinations in the dog and monkey. Geil RG, et al. **J Toxicol Environ Health** 3(1–2):179–93, Sep 77 (2 ref.)

PROLACTIN

BLOOD

[Hyperprolactinemia. Pathophysiology, clinical significance, therapy] Von Werder K, et al. **Internist (Berlin)** 18(10):520–8, Oct 77 (33 ref.) **(Ger)**

PHYSIOLOGY

Prolactin. Frantz AG. **N Engl J Med** 298(4):201–7, 26 Jan 78 (17 ref.)

Prolactin and estrogen receptors in breast cancer. McGuire WL, et al. **Pathobiol Annu** 7:191–211, 1977 (210 ref.)

SECRETION

Neuroleptic-stimulated prolactin secretion in the rat as an animal model for biological psychiatry: I. Comparison with anti-psychotic activity. pp. 443–55. Meltzer HY, et al. **In: Hanin I, Usdin E, ed. Animal models in psychiatry and neurology. Oxford, Pergamon Press, 1977. WM 100 W897a 1977.** (101 ref.)

Prolactin secreting pituitary adenomas in women with amenorrhea or galactorrhea. Keye WR Jr, et al. **Obstet Gynecol Surv** 32(11):727–38, Nov 77 (108 ref.)

PSEUDOHERMAPHRODITISM

DIAGNOSIS

[Male pseudohermaphroditism] Kuttenn F, et al. **Rev Prat** 27(39):2523–34, 11 Sep 77 (30 ref.) (Eng. Abstr.) **(Fre)**

PUBERTY

[Male puberty] Job JC. **Rev Prat** 27(39):2489–96, 11 Sep 77 (16 ref.) (Eng. Abstr.) **(Fre)**

RENIN

SECRETION

[The renin angiotensin system in the pathology of arterial hypertension of aortic coarctation] Sánchez G, et al. **Arch Inst Cardiol Mex** 47(4):412–8, Jul–Aug 77 (27 ref.) (Eng. Abstr.) **(Spa)**

RICKETS

ETIOLOGY

[Role of glycosaminoglycans in the etiopathogenesis of rickets] Gębala A, et al. **Pediatr Pol** (10):1165–9, 52 (30 ref.) **(Pol)**

SOMATOMEDIN

[Somatomedin; biological characteristics and various clinical data on its content in humans under normal and pathological conditions] Vasil'eva IA. **Probl Endokrinol (Mosk)** 23(5):104–10, Sep–Oct 77 (53 ref.) **(Rus)**

SOMATOTROPIN

PHYSIOLOGY

[Brain development and growth hormone (author's transl)] Noguchi T, et al. **Tanpakushitsu Kakusan Koso** 22(11):1247–58, Oct 77 (120 ref.) **(Jpn)**

SECRETION

[Sleep and secretory activity of the anterior pituitary] Muratorio A, et al. **Riv Neurol** 47(5):546–69, Sep–Oct 77 (124 ref.) **(Ita)**

REVIEW SECTION

STEROIDS

METABOLISM

Comparative metabolism of 17alpha-ethynyl steroids used in oral contraceptives. Ranney RE.
J Toxicol Environ Health 3(1-2):139-66, Sep 77 (58 ref.)

TESTICULAR DISEASES

VETERINARY

Testicular biopsy in the dog. Larsen RE.
Vet Clin North Am 7(4):747-55, Nov 77 (13 ref.)

TESTIS

PHYSIOLOGY

Chemistry and physiology of inhibin--a review. Chari S.
Endokrinologie 70(1):99-107, Sep 77 (52 ref.)
[Physiology and exploration of the endocrine testicle] Mahoudeau JA. **Rev Prat** 27(39):2469-77, 11 Sep 77 (21 ref.) (Eng. Abstr.) **(Fre)**

THYROID GLAND

METABOLISM

Thyroidal and peripheral production of thyroid hormones. Review of recent findings and their clinical implications. Schimmel M, et al. **Ann Intern Med** 87(6):760-8, Dec 77 (94 ref.)

PHYSIOLOGY

Catecholamines and hyperthyroidism. Landsberg L.
Clin Endocrinol Metab 6(3):697-718, Nov 77 (117 ref.)
[Characteristics of pituitary-thyroid functions in the perinatal period] Nakai T, et al. **Horumon To Rinsho** 25(11):1105-14, Nov 77 (48 ref.) **(Jpn)**

THYROID NEOPLASMS

Squamous cell carcinoma of the thyroid: a report of two cases. Kampsen EB, et al. **J Surg Oncol** 9(6):567-78, 1977 (21 ref.)

THYROXINE

BIOSYNTHESIS

Thyroidal and peripheral production of thyroid hormones. Review of recent findings and their clinical implications. Schimmel M, et al. **Ann Intern Med** 87(6):760-8, Dec 77 (94 ref.)

THERAPEUTIC USE

Management of hypothyroidism. Cobb WE, et al.
J Maine Med Assoc 68(12):466-8, 470-4, Dec 77 (79 ref.)

TRIIODOTHYRONINE

BIOSYNTHESIS

Thyroidal and peripheral production of thyroid hormones. Review of recent findings and their clinical implications. Schimmel M, et al. **Ann Intern Med** 87(6):760-8, Dec 77 (94 ref.)

TURNER'S SYNDROME

DRUG THERAPY

[Treatment of growth retardation with androgens in Turner's syndrome] Sorensen K, et al. **Ugeskr Laeger** 139(43):2559-61, 24 Oct 77 (25 ref.) (Eng. Abstr.) **(Dan)**

METHOD SECTION

This section is meant to be an alerting device for articles which describe: 1) new methods or techniques, 2) modifications of existing methods or 3) comparisons of different methods. For methods on a particular substance or for a specific type of method, see the subject index or the subject section (particularly the subheadings: analysis, blood, cerebrospinal fluid, chemical synthesis, isolation and purification, and urine).

AUTOANALYSIS

Evaluation of homogeneous enzyme immunoassay of serum thyroxine with use of bichromatic analysis. Finley PR, et al. **Clin Chem** 24(1):165–7, Jan 78
AUTOANALYSIS/ HUMAN/ IMMUNOENZYME TECHNICS/ METHODS/ *THYROXINE, blood

BIOLOGICAL ASSAY

Preparation of highly purified human somatotropin (growth hormone). Schleyer M, et al.
Hoppe Seylers Z Physiol Chem 358(12):1557–64, Dec 77
ANIMAL/ BIOLOGICAL ASSAY/ CARTILAGE, drug effects/ CHROMATOGRAPHY, DEAE-CELLULOSE, methods/ CHROMATOGRAPHY, GEL, methods/ DOSE-RESPONSE RELATIONSHIP, DRUG/ HUMAN/ PITUITARY GLAND/ RATS/ *SOMATOTROPIN, isolation & purification

Biological and immunological characterization of human luteinizing hormone: II. A comparison of the immunological and biological activities of pituitary extracts after electrofocusing using different standard preparations. Robertson DM, et al. **Mol Cell Endocrinol** 9(1):57–67, Nov 77
BIOLOGICAL ASSAY/ COMPARATIVE STUDY/ FEMALE/ HUMAN/ ISOELECTRIC FOCUSING, methods/ *LH/ LH, isolation & purification/ LH, pharmacodynamics/ MENOPAUSE/ RADIOIMMUNOASSAY, methods

INSTRUMENTATION

[Assay of somatomedin C in bovine plasma (author's transl)] Binnerts WT, et al. **Tijdschr Diergeneeskd** 102(23):1366–75, 1 Dec 77 (Eng. Abstr.) **(Dut)**
ANIMAL/ BIOLOGICAL ASSAY, instrumentation/ *BIOLOGICAL ASSAY, methods/ CATTLE/ ENGLISH ABSTRACT/ IN VITRO/ *SOMATOMEDIN, blood

METHODS

Cytochemical methods of hormone assay. Bitensky L.
J Clin Pathol [Suppl] (7):22–5, Nov 76
ADRENAL GLANDS, drug effects/ ANIMAL/ *BIOLOGICAL ASSAY, methods/ COMPARATIVE STUDY/ *CORTICOTROPIN, analysis/ CORTICOTROPIN, pharmacodynamics/ GUINEA PIGS/ *HISTOCYTOCHEMISTRY, methods/ HORMONES, analysis/ ORGAN CULTURE/ RADIOIMMUNOASSAY/ THYROID GLAND, drug effects/ *THYROTROPIN, analysis/ THYROTROPIN, pharmacodynamics

[Assay of somatomedin C in bovine plasma (author's transl)] Binnerts WT, et al. **Tijdschr Diergeneeskd** 102(23):1366–75, 1 Dec 77 (Eng. Abstr.) **(Dut)**
ANIMAL/ BIOLOGICAL ASSAY, instrumentation/ *BIOLOGICAL ASSAY, methods/ CATTLE/ ENGLISH ABSTRACT/ IN VITRO/ *SOMATOMEDIN, blood

[Methods of determining renin activity in individual renal glomeruli and their fragments] Fedorov VI.
Biull Eksp Biol Med 84(11):632–5, Nov 77 (Eng. Abstr.) **(Rus)**
ANIMAL/ BIOLOGICAL ASSAY, methods/ ENGLISH ABSTRACT/ *KIDNEY GLOMERULUS, analysis/ RATS/ *RENIN, analysis

CENTRIFUGATION

[The measurement of free cortisol, free testosterone and free oestradiol-17beta: a comparison of five different methods (author's transl)] Kley HK, et al.
J Clin Chem Clin Biochem 15(9):465–72, Sep 77 (Eng. Abstr.) **(Ger)**
ADULT/ BLOOD PROTEINS, metabolism/ CENTRIFUGATION/ CHROMATOGRAPHY, methods/ COMPARATIVE STUDY/ DIALYSIS/ ENGLISH ABSTRACT/ *ESTRADIOL, blood/ FEMALE/ HUMAN/ *HYDROCORTISONE, blood/ MALE/ METHODS/ NORMAL VALUES/ PREGNANCY/ PROTEIN BINDING/ *TESTOSTERONE, blood

CHEMISTRY

Mass fragmentographic determination of prednimustine and chlorambucil in plasma. Jakhammer T, et al.
Acta Pharm Suec 14(5–6):485–96, 1977
CHEMISTRY/ *CHLORAMBUCIL, blood/ HUMAN/ MASS FRAGMENTOGRAPHY, instrumentation/ *MASS FRAGMENTOGRAPHY, methods/ *PREDNISOLONE, analogs & derivatives/ PREDNISOLONE, blood

CHROMATOGRAPHY

METHODS

Separation of progesterone-specific from CBG-like binding sites by chromatography on columns of spheroidal hydroxylapatite. Booth BA, et al. **J Steroid Biochem** 8(11):1179–82, Nov 77
ANIMAL/ CHROMATOGRAPHY, methods/ CYTOSOL, analysis/ FEMALE/ HUMAN/ HYDROXYAPATITES/ RATS/ *RECEPTORS, PROGESTERONE, isolation & purification/ *TRANSCORTIN, isolation & purification/ U.S. GOV'T SUPPORTED, N.I.H./ *UTERUS, analysis

[The measurement of free cortisol, free testosterone and free oestradiol-17beta: a comparison of five different methods (author's transl)] Kley HK, et al.
J Clin Chem Clin Biochem 15(9):465–72, Sep 77 (Eng. Abstr.) **(Ger)**
ADULT/ BLOOD PROTEINS, metabolism/ CENTRIFUGATION/ CHROMATOGRAPHY, methods/ COMPARATIVE STUDY/ DIALYSIS/ ENGLISH ABSTRACT/ *ESTRADIOL, blood/ FEMALE/ HUMAN/ *HYDROCORTISONE, blood/ MALE/ METHODS/ NORMAL VALUES/ PREGNANCY/ PROTEIN BINDING/ *TESTOSTERONE, blood

CHROMATOGRAPHY, DEAE-CELLULOSE

METHODS

Preparation of highly purified human somatotropin (growth hormone). Schleyer M, et al.
Hoppe Seylers Z Physiol Chem 358(12):1557-64, Dec 77
ANIMAL/ BIOLOGICAL ASSAY/ CARTILAGE, drug effects/ CHROMATOGRAPHY, DEAE-CELLULOSE, methods/ CHROMATOGRAPHY, GEL, methods/ DOSE-RESPONSE RELATIONSHIP, DRUG/ HUMAN/ PITUITARY GLAND/ RATS/ *SOMATOTROPIN, isolation & purification

Rapid measurement of an index of testosterone binding to serum binding globulin using ion exchange columns. Harman SM, et al. **J Clin Endocrinol Metab** 45(5):953-9, Nov 77
ADULT/ *CHROMATOGRAPHY, DEAE-CELLULOSE, methods/ COMPARATIVE STUDY/ CONTRACEPTIVES, ORAL, administration & dosage/ FEMALE/ HIRSUTISM, blood/ HUMAN/ HYDROGEN-ION CONCENTRATION/ MALE/ MIDDLE AGE/ PREGNANCY/ *SEX HORMONE BINDING GLOBULIN, analysis/ *TESTOSTERONE, blood

CHROMATOGRAPHY, GAS

A gas chromatographic-mass spectrometric (GC-MS) assay for 3-methoxy-4-hydroxyphenethyleneglycol and vanilmandelic acid in human serum. Takahashi S, et al. **Clin Chim Acta** 81(2):182-92, 1 Dec 77
ADULT/ CHROMATOGRAPHY, GAS/ *GLYCOLS, blood/ HUMAN/ MALE/ METHODS/ *METHOXYHYDROXYPHENYLGLYCOL, blood/ MIDDLE AGE/ SPECTRUM ANALYSIS, MASS/ *VANILMANDELIC ACID, blood

METHODS

Quantitative determination of catecholamines by gas-liquid chromatography. Benedict C, et al. **Biochem Med** 18(3):455-9, Dec 77
*CATECHOLAMINES, blood/ CHROMATOGRAPHY, GAS, methods/ FEMALE/ HUMAN/ MALE/ SEX FACTORS

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Analysis of unconjugated steroids in plasma by liquid-gel chromatography and glass capillary gas chromatography mass spectrometry. Axelson M, et al. **J Steroid Biochem** 8(6):683-92, Jun 77
CHROMATOGRAPHY, GAS, methods/ CHROMATOGRAPHY, ION EXCHANGE, methods/ FEMALE/ HUMAN/ PREGNANCY/ SPECTRUM ANALYSIS, MASS, instrumentation/ SPECTRUM ANALYSIS, MASS, methods/ *STEROIDS, blood

Deactivation of gas chromatographic systems for quantitative analysis of MO-TMS derivatives of steroids at the picogram level. Axelson M. **J Steroid Biochem** 8(6):693-8, Jun 77
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Determination of urinary 17-hydroxypregnanolone by gas chromatography-mass spectrometry in patients with congenital adrenal hyperplasia. Holsboer F, et al.
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CHROMATOGRAPHY, GEL

Two methods for measurement of oestradiol-17 beta and progesterone receptors in human breast cancer and correlation with response treatment. Barnes DM, et al.
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[Purification of the peptide hormone relaxin (author's transl)] Weiss M, et al. **Arch Gynaekol** 223(3):233-9, 28 Oct 77 (Eng. Abstr.) **(Ger)**
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METHODS

Preparation of highly purified human somatotropin (growth hormone). Schleyer M, et al.
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CHROMATOGRAPHY, HIGH SPEED LIQUID

Use of octadecasilyl-silica for the extraction and purification of peptides in biological samples. Application to the identification of circulating metabolites of corticotropin-(1-24)-tetracosapeptide and somatostatin in

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METHODS

Urinary free methyldopa determined by reversed-phase high-performance liquid chromatography. Mell LD, et al. **Clin Chem** 24(1):23–6, Jan 78
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[Purification of the peptide hormone relaxin (author's transl)] Weiss M, et al. **Arch Gynaekol** 223(3):233–9, 28 Oct 77 (Eng. Abstr.) (Ger)
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METHODS

Analysis of unconjugated steroids in plasma by liquid–gel chromatography and glass capillary gas chromatography mass spectrometry. Axelson M, et al. **J Steroid Biochem** 8(6):683–92, Jun 77
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CHROMATOGRAPHY, LIQUID

METHODS

Determination of adrenaline and noradrenaline in plasma by an isotope derivative method and ion pair liquid chromatography. Eriksson BM, et al. **Acta Pharm Suec** 14(5–6):451–8, 1977
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CHROMATOGRAPHY, THIN LAYER

METHODS

[Thin layer chromatography screening test for semiquantitative detection of 4-hydroxy-3-methoxy mandelic acid (HMMA) in urine without extraction (author's transl)] Knuppen R, et al. **J Clin Chem Clin Biochem** 15(9):515–8, Sep 77 (Eng. Abstr.) (Ger)
CHROMATOGRAPHY, THIN LAYER, methods/ COMPARATIVE STUDY/ ENGLISH ABSTRACT/ FALSE POSITIVE REACTIONS/ HUMAN/ HYPERTENSION, urine/ METHODS/ *VANILMANDELIC ACID, urine

COLORIMETRY

METHODS

The measurement of urinary tetrahydroaldosterone by radioimmunoassay. Pratt JH, et al. **J Steroid Biochem** 8(6):677–81, Jun 77
*ALDOSTERONE, analogs & derivatives/ ALDOSTERONE, urine/ COLORIMETRY, methods/ COMPARATIVE STUDY/ HUMAN/ MALE/ RADIOIMMUNOASSAY, methods/ RENIN, urine/ U.S. GOV'T SUPPORTED, N.I.H.

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Discrepant cortisol values: comparison of radioimmunoassay and competitive protein binding technics. Danowski TS, et al. **Behav Neuropsychiatry** 8(1–12):16–8, Apr 76–Mar 77
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Evaluation of two new single-reagent-addition thyroxine radioimmunoassay kits [letter] Kubasik NP, et al. **Clin Chem** 23(12):2351, Dec 77
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Laboratory assessment of fetal lung maturity: lecithin/sphingomyelin ratio vs. cortisol and foam-test assays. McCann DS, et al. **Clin Chem** 23(12):2250–3, Dec 77
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Two methods for measurement of oestradiol-17 beta and progesterone receptors in human breast cancer and correlation with response treatment. Barnes DM, et al. **Eur J Cancer** 13(10):1133–43, Oct 77
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Cytochemical methods of hormone assay. Bitensky L. **J Clin Pathol [Suppl]** (7):22–5, Nov 76
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Evaluation of an oestradiol radioimmunoassay by high-resolution mass fragmentography. Wilson DW, et al. **J Endocrinol** 74(3):503–4, Sep 77
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The measurement of urinary tetrahydroaldosterone by radioimmunoassay. Pratt JH, et al. **J Steroid Biochem** 8(6):677–81, Jun 77
*ALDOSTERONE, analogs & derivatives/ ALDOSTERONE, urine/ COLORIMETRY, methods/ COMPARATIVE STUDY/ HUMAN/ MALE/ RADIOIMMUNOASSAY, methods/ RENIN, urine/ U.S. GOV'T SUPPORTED, N.I.H.

Biological and immunological characterization of human luteinizing hormone: II. A comparison of the immunological and biological activities of pituitary extracts after electrofocusing using different standard preparations. Robertson DM, et al. **Mol Cell Endocrinol** 9(1):57–67, Nov 77
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[Radioimmunological assay of serum thyroxine without extraction (author's transl)] Nedvídková J, et al. **Cas Lek Cesk** 116(43):1327–30, 28 Oct 77 (Eng. Abstr.) **(Cze)**
ADOLESCENCE/ ADULT/ AGED/ COMPARATIVE STUDY/ ENGLISH ABSTRACT/ HUMAN/ HYPERTHYROIDISM, diagnosis/ HYPOTHYROIDISM, diagnosis/ MIDDLE AGE/ RADIOIMMUNOASSAY, methods/ *THYROXINE, blood

[Corticosteroids determination in pig plasma (author's transl)] Favre B, et al. **Ann Rech Vet** 8(2):111–20, 1977 (Eng. Abstr.) **(Fre)**
*ADRENAL CORTEX HORMONES, blood/ ANIMAL/ COMPARATIVE STUDY/ CORTICOSTERONE, blood/ CORTICOTROPIN, pharmacodynamics/ DEXAMETHASONE, pharmacodynamics/ DIURNAL RHYTHM/ ENGLISH ABSTRACT/ HYDROCORTISONE, blood/ MALE/ METHODS/ *SWINE, blood

[The measurement of free cortisol, free testosterone and free oestradiol-17beta: a comparison of five different methods (author's transl)] Kley HK, et al. **J Clin Chem Clin Biochem** 15(9):465–72, Sep 77 (Eng. Abstr.) **(Ger)**
ADULT/ BLOOD PROTEINS, metabolism/ CENTRIFUGATION/ CHROMATOGRAPHY, methods/ COMPARATIVE STUDY/ DIALYSIS/ ENGLISH ABSTRACT/ *ESTRADIOL, blood/ FEMALE/ HUMAN/ *HYDROCORTISONE, blood/ MALE/ METHODS/ NORMAL VALUES/ PREGNANCY/ PROTEIN BINDING/ *TESTOSTERONE, blood

[Thin layer chromatography screening test for semiquantitative detection of 4-hydroxy-3-methoxy mandelic acid (HMMA) in urine without extraction (author's transl)] Knuppen R, et al. **J Clin Chem Clin Biochem** 15(9):515–8, Sep 77 (Eng. Abstr.) **(Ger)**
CHROMATOGRAPHY, THIN LAYER, methods/ COMPARATIVE STUDY/ ENGLISH ABSTRACT/ FALSE POSITIVE REACTIONS/ HUMAN/ HYPERTENSION, urine/ METHODS/ *VANILMANDELIC ACID, urine

[Indicators of the concentration of growth hormone, insulin, gastrin and cortisol in the blood serum of healthy persons, determined by the radioimmunologic method] Bulgakov SA, et al. **Lab Delo** (8):503–4, 1977 **(Rus)**
COMPARATIVE STUDY/ FEMALE/ *GASTRINS, blood/ HUMAN/ *HYDROCORTISONE, blood/ *INSULIN, blood/ MALE/ RADIOIMMUNOASSAY, methods/ *SOMATOTROPIN, blood

DENSITOMETRY

INSTRUMENTATION

Quantitative microscopy of enzyme reactions in tissue sections. Altman FP. **Microsc Acta** 79(4):327–38, Jul 77 (11 ref.)
ANIMAL/ CARTILAGE, ARTICULAR, enzymology/ DENSITOMETRY, instrumentation/ *DENSITOMETRY, methods/ *ENZYMES, metabolism/ GLUCOSEPHOSPHATE DEHYDROGENASE, metabolism/ HISTOCYTOCHEMISTRY/ INTESTINE, SMALL, enzymology/ LACTATE DEHYDROGENASE, metabolism/ LIVER, enzymology/ MICE/ MICROSCOPY, instrumentation/ MUSCLES, enzymology/ RATS/ REVIEW/ SUCCINATE DEHYDROGENASE, metabolism

METHODS

Quantitative microscopy of enzyme reactions in tissue sections. Altman FP. **Microsc Acta** 79(4):327–38, Jul 77 (11 ref.)
ANIMAL/ CARTILAGE, ARTICULAR, enzymology/ DENSITOMETRY, instrumentation/ *DENSITOMETRY, methods/ *ENZYMES, metabolism/ GLUCOSEPHOSPHATE DEHYDROGENASE, metabolism/ HISTOCYTOCHEMISTRY/ INTESTINE, SMALL, enzymology/ LACTATE DEHYDROGENASE, metabolism/ LIVER, enzymology/ MICE/ MICROSCOPY, instrumentation/ MUSCLES, enzymology/ RATS/ REVIEW/ SUCCINATE DEHYDROGENASE, metabolism

The early detection of osteoporosis by Compton gamma ray spectroscopy. Hazan G, et al. **Phys Med Biol** 22(6):1073–84, Nov 77
AGED/ DENSITOMETRY, methods/ FEMALE/ HUMAN/ MALE/ MIDDLE AGE/ *OSTEOPOROSIS, diagnosis/ RADIUS/ SCATTERING, RADIATION/ SPECTROMETRY, GAMMA

A roentgenologic study of cortical bone resorption in chronic renal failure. Meema HE, et al. **Radiology** 126(1):67–74, Jan 78
ADULT/ BONE RESORPTION, etiology/ BONE RESORPTION, pathology/ *BONE RESORPTION, radiography/ DENSITOMETRY, methods/ FEMALE/ FOLLOW-UP STUDIES/ HAND, pathology/ HAND, radiography/ HUMAN/ *KIDNEY FAILURE, CHRONIC, complications/ MALE/ MIDDLE AGE/ RADIUS, pathology

DENSITOMETRY, X-RAY

METHODS

[Equidensitography of knee arthroliths] Seyss R. **Med Monatsschr** 31(11):515–8, Nov 77 **(Ger)**
*DENSITOMETRY, X-RAY, methods/ HUMAN/ *KNEE JOINT, radiography/ OSTEOARTHRITIS, radiography/ SYNOVIAL MEMBRANE, radiography

DIALYSIS

[The measurement of free cortisol, free testosterone and free oestradiol-17beta: a comparison of five different methods (author's transl)] Kley HK, et al. **J Clin Chem Clin Biochem** 15(9):465–72, Sep 77 (Eng. Abstr.) **(Ger)**
ADULT/ BLOOD PROTEINS, metabolism/ CENTRIFUGATION/ CHROMATOGRAPHY, methods/ COMPARATIVE STUDY/ DIALYSIS/ ENGLISH ABSTRACT/ *ESTRADIOL, blood/ FEMALE/ HUMAN/ *HYDROCORTISONE, blood/ MALE/ METHODS/ NORMAL VALUES/ PREGNANCY/ PROTEIN BINDING/

*TESTOSTERONE, blood

INSTRUMENTATION

A flow dialysis technique for the measurement of free testosterone in human plasma under physiologic conditions. Moll GW Jr, et al. **Biochem Med** 18(3):344–52, Dec 77
DIALYSIS, instrumentation/ DIALYSIS, methods/ HUMAN/ MALE/ *TESTOSTERONE, blood/ U.S. GOV'T SUPPORTED, N.I.H.

METHODS

A flow dialysis technique for the measurement of free testosterone in human plasma under physiologic conditions. Moll GW Jr, et al. **Biochem Med** 18(3):344–52, Dec 77
DIALYSIS, instrumentation/ DIALYSIS, methods/ HUMAN/ MALE/ *TESTOSTERONE, blood/ U.S. GOV'T SUPPORTED, N.I.H.

ELECTROPHORESIS, POLYACRYLAMIDE GEL

METHODS

Quantitation of corticosteroid binding globulin (CBG) by steady state polyacrylamide gel electrophoresis (SS-PAGE). Hansson V, et al. **J Steroid Biochem** 8(7):771–5, Jul 77
ANIMAL/ ELECTROPHORESIS, POLYACRYLAMIDE GEL, methods/ FEMALE/ HYDROCORTISONE, metabolism/ KINETICS/ MALE/ PREGNANCY/ RATS/ *TRANSCORTIN, analysis

FLUORESCENCE

Simultaneous visualization of noradrenergic fibres and beta-adrenoreceptors in pre- and postsynaptic regions in rat brain. Atlas D, et al. **Brain Res** 135(2):347–50, 28 Oct 77
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HISTOCYTOCHEMISTRY

Quantitative microscopy of enzyme reactions in tissue sections. Altman FP. **Microsc Acta** 79(4):327–38, Jul 77 (11 ref.)
ANIMAL/ CARTILAGE, ARTICULAR, enzymology/ DENSITOMETRY, instrumentation/ *DENSITOMETRY, methods/ *ENZYMES, metabolism/ GLUCOSEPHOSPHATE DEHYDROGENASE, metabolism/ HISTOCYTOCHEMISTRY/ INTESTINE, SMALL, enzymology/ LACTATE DEHYDROGENASE, metabolism/ LIVER, enzymology/ MICE/ MICROSCOPY, instrumentation/ MUSCLES, enzymology/ RATS/ REVIEW/ SUCCINATE DEHYDROGENASE, metabolism

METHODS

Cytochemical methods of hormone assay. Bitensky L. **J Clin Pathol [Suppl]** (7):22–5, Nov 76
ADRENAL GLANDS, drug effects/ ANIMAL/ *BIOLOGICAL ASSAY, methods/ COMPARATIVE STUDY/ *CORTICOTROPIN, analysis/ CORTICOTROPIN, pharmacodynamics/ GUINEA PIGS/ *HISTOCYTOCHEMISTRY, methods/ HORMONES, analysis/ ORGAN CULTURE/ RADIOIMMUNOASSAY/ THYROID GLAND, drug effects/ *THYROTROPIN, analysis/ THYROTROPIN, pharmacodynamics

Development of a cytochemical section-assay for thyroid stimulators [proceedings] Gilbert DM, et al. **J Endocrinol** 75(3):40P, Dec 77
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ISOELECTRIC FOCUSING

METHODS

Biological and immunological characterization of human luteinizing hormone: II. A comparison of the immunological and biological activities of pituitary extracts after electrofocusing using different standard preparations. Robertson DM, et al. **Mol Cell Endocrinol** 9(1):57–67, Nov 77
BIOLOGICAL ASSAY/ COMPARATIVE STUDY/ FEMALE/ HUMAN/ ISOELECTRIC FOCUSING, methods/ *LH/ LH, isolation & purification/ LH, pharmacodynamics/ MENOPAUSE/ RADIOIMMUNOASSAY, methods

MASS FRAGMENTOGRAPHY

INSTRUMENTATION

Mass fragmentographic determination of prednimustine and chlorambucil in plasma. Jakhammer T, et al. **Acta Pharm Suec** 14(5–6):485–96, 1977
CHEMISTRY/ *CHLORAMBUCIL, blood/ HUMAN/ MASS FRAGMENTOGRAPHY, instrumentation/ *MASS FRAGMENTOGRAPHY, methods/ *PREDNISOLONE, analogs & derivatives/ PREDNISOLONE, blood

METHODS

Mass fragmentographic determination of prednimustine and chlorambucil in plasma. Jakhammer T, et al. **Acta Pharm Suec** 14(5–6):485–96, 1977
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Evaluation of an oestradiol radioimmunoassay by high-resolution mass fragmentography. Wilson DW, et al. **J Endocrinol** 74(3):503–4, Sep 77
COMPARATIVE STUDY/ *ESTRADIOL, blood/ HUMAN/ *MASS FRAGMENTOGRAPHY, methods/ RADIOIMMUNOASSAY

MICROCHEMISTRY

Determination of cortisol in human plasma by radioimmunoassay. Use of the 125I-labelled radioligand. Read GF, et al. **Ann Clin Biochem** 14(6):343–9, Nov 77
CROSS REACTIONS/ HUMAN/ *HYDROCORTISONE, blood/ IODINE RADIOISOTOPES/ ISOTOPE LABELING/ MICROCHEMISTRY/ RADIOIMMUNOASSAY, methods

An ultrasensitive method for the simultaneous determination of cyclic AMP and cyclic GMP in small-volume samples from blood and tissue. Honma M, et al. **Biochem Med** 18(3):257–73, Dec 77
*ADENOSINE CYCLIC-3',5'-MONOPHOSPHATE, analysis/ ADENOSINE CYCLIC-3',5'-MONOPHOSPHATE, blood/ ANHYDRIDES/ ANIMAL/ GLUCAGON, pharmacodynamics/ *GUANOSINE CYCLIC-3',5'-MONOPHOSPHATE, analysis/ GUANOSINE CYCLIC-3',5'-MONOPHOSPHATE, blood/ HUMAN/ MALE/ MICROCHEMISTRY/ RABBITS/ RADIOIMMUNOASSAY, methods/ RATS/ SUCCINATES/ TISSUE DISTRIBUTION

A simplified radioimmunoassay procedure for serum progesterone. Khadempour MH, et al. **Clin Chim Acta** 82(1–2):161–71, 2 Jan 78
FEMALE/ HUMAN/ KINETICS/ MENSTRUATION, LUTEAL PHASE/ MICROCHEMISTRY/ PREGNANCY/ *PROGESTERONE, blood/ RADIOIMMUNOASSAY, methods

Microfilter paper method for 17 alpha-hydroxyprogesterone radioimmunoassay: its application for rapid screening for congenital adrenal hyperplasia. Pang S, et al. **J Clin Endocrinol Metab** 45(5):1003–8, Nov 77
*ADRENAL GLAND HYPERFUNCTION, blood/ *ADRENAL GLAND HYPERFUNCTION, occurrence/ FETAL BLOOD, analysis/ HUMAN/ *HYDROXYPROGESTERONES, blood/ INFANT, NEWBORN/ MASS SCREENING, methods/ MICROCHEMISTRY/ *RADIOIMMUNOASSAY, methods/ U.S. GOV'T SUPPORTED, N.I.H.

Deactivation of gas chromatographic systems for quantitative analysis of MO-TMS derivatives of steroids at the picogram level. Axelson M. **J Steroid Biochem** 8(6):693–8, Jun 77
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Concentrations of unconjugated 5alpha-androstan-3beta.17beta-diol in human peripheral plasma as measured by radioimmunoassay. Hopskinson CR, et al. **J Steroid Biochem** 8(12):1253–7, Dec 77
*ANDROSTANEDIOL, blood/ *ANDROSTANES, blood/ CROSS REACTIONS/ FEMALE/ HUMAN/ MALE/ MICROCHEMISTRY/ PREGNANCY/ RADIOIMMUNOASSAY, methods/ TESTOSTERONE, diagnostic use

A rapid radioimmunoassay for serum testosterone. Sheldon PE, et al. **Steroids** 30(2):149–57, Aug 77
ANIMAL/ MICROCHEMISTRY/ RADIOIMMUNOASSAY, methods/ RATS/ *TESTOSTERONE, blood

A radioimmunoassay for 7 alpha-hydroxy dehydroepiandrosterone in human plasma. Skinner SJ, et al. **Steroids** 30(3):315–30, Sep 77
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NUCLEAR MAGNETIC RESONANCE

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